

will allow air to flow from the gas pump into the bladders. Simultaneously, the microcontroller will be sending the pressure readings from the plurality of sensors to the communication device. This allows the user to have an interface of the areas of high/low pressure.

**[0080]** While preferred embodiments have been shown, and described, modifications thereof can be made by one skilled in the art without departing from the scope or teaching herein. The embodiments described herein are exemplary only and are not limiting. Many variations and modifications of the system and apparatus are possible and will become apparent to those skilled in the art once the above disclosure is fully appreciated. For example, the relative dimensions of various parts, the materials from which the various parts are made, and other parameters can be varied. Accordingly, it is intended that the following claims be interpreted to embrace all such variations and modifications.

I claim:

1. An inflatable cushion comprising:
  - a cover;
  - a top layer;
  - a base;
  - a communication device;
  - a microcontroller;
  - a power source;
  - a gas pump;
  - a primary tube;
  - a blow off valve;
  - a plurality of two-way valves;
  - a plurality of secondary tubes;
  - a plurality of pressure sensors; and
  - a plurality of bladder pods; wherein
    - said plurality of bladders pods are on said base;
    - said plurality of bladder pods are below said top layer;
    - said plurality of bladder pods are in individual fluid communication with said individual secondary tubes;
    - said individual secondary tubes are in fluid communication with said individual pressure sensors;
    - said individual secondary tubes are in further fluid communication with said individual two-way valves;
    - said two-way valves are in fluid communication with said primary tube;
    - said primary tube is in fluid communication with said gas pump and said blow off valve;
    - said microcontroller can receive and send signals to said blow off valve, said gas pump,
    - said individual two-way valve, said communication device, and/or said individual sensor;
    - said microcontroller, said gas pump, said blow off valve, said plurality of two-way valves, and said plurality of pressure sensors are all powered by said power source; and
    - said plurality of bladder pods are covered by said cover attaching to said base.
2. The inflatable cushion of claim 1 further comprising: said power source is a battery.
3. The inflatable cushion of claim 1 further comprising: said microcontroller is a computer system on a chip that does a job. It contains an integrated processor, memory (a small amount of RAM, program memory, or both), and input/output peripherals, which are used to interact with things connected to the chip.

4. The inflatable cushion of claim 1 further comprising: said communication device is a device that has the potential of having wired or wireless interconnection of mobile phones, computers, and other electronic devices.
5. The inflatable cushion of claim 1 further comprising: said plurality of sensors are located inside the cover and base when the cushion is assembled.
6. The inflatable cushion of claim 1 further comprising: a soft layer of padding underneath said cover.
7. An inflatable cushion comprising:
  - a cover;
  - a base;
  - a top layer;
  - a communication device;
  - a microcontroller;
  - a power source;
  - a gas pump;
  - a primary tube;
  - a blow off valve;
  - a plurality of two-way valves;
  - a plurality of secondary tubes;
  - a plurality of bladder pods with pressure sensors; wherein
    - said plurality of bladders pods with pressure sensors are on said base;
    - said plurality of bladder pods are below said top layer;
    - said plurality of bladder pods with pressure sensors are in individual fluid communication with said individual secondary tubes;
    - said individual secondary tubes are in further fluid communication with said individual two-way valves;
    - said two-way valves are in fluid communication with said primary tube;
    - said primary tube is in fluid communication with said gas pump and said blow off valve;
    - said microcontroller can receive and send signals to said blow off valve, said gas pump,
    - said individual two-way valve, said communication device, and/or said individual bladder pads with pressure sensors;
    - said microcontroller, said gas pump, said blow off valve, said plurality of two-way valves, and said plurality of pressure sensors are all powered by said power source; and
    - said plurality of bladder pods with pressure sensors are covered by said cover attaching to said base.
8. The inflatable cushion of claim 7 further comprising: said power source is a battery.
9. The inflatable cushion of claim 7 further comprising: said microcontroller is a computer system on a chip that does a job. It contains an integrated processor, memory (a small amount of RAM, program memory, or both), and input/output peripherals, which are used to interact with things connected to the chip.
10. The inflatable cushion of claim 7 further comprising: said communication device is a device that has the potential of having wired or wireless interconnection of mobile phones, computers, and other electronic devices.
11. The inflatable cushion of claim 7 further comprising: said secondary tubes are located inside the cover and base when the cushion is assembled.